



**Dr. B Balu Naik**

**Senior Professor and Director of Admissions**

**Life Member in Indian Society for Technical Education: LM-30791, FIE, F-1213330, Life Member in ASME, Life Member of CSI Communications, Life Member in Solar Energy Society of India (SESI): LM/2205/2016**

Mechanical Engineering

**-> At JNTUH**

- > Director, JNTUH (2025 - Till Date)
- > Director, JNTUH, Hyderabad (2015 - 2024)
- > Professor, J.N.T.U College of Engineering, Hyderabad. (2014 - 2015)
- > Principal, J.N.T.U.H College of Engineering, Manthani (2012 - 2014)
- > Professor, J.N.T.U College of Engineering, Hyderabad. (2011 - 2012)
- > Associate Professor, J.N.T.U. H College of Engineering, Hyderabad (2003 - 2010)
- > Assistant Professor, J.N.T.U.H College of Engineering, Hyderabad (1992 - 2003)

**-> Publications**

**- International Journals**

- Dr.B.Balu Naik, *A Study of the Coefficient of Friction in DP-900 Steel Sheets Forming, Recent Advances in Materials Processing* Springer, 2023
- Dr.B.Balu Naik, *Heat Transfer Enhancement through perforated Fin made by MMC by reinforcing Aluminum with Graphite and Optimization of Design Parameters using Taguchi DOE Method*, SSRG International Journal of Mechanical Engineering, ISBN No.2348-8360, Vol No.9, Issue No.4, pp.18-29, April, 2022
- Dr.B.Balu Naik, *Heat Transfer Enhancement through perforated fin made by MMC by reinforcing aluminum with SiC & Graphite and Optimization of design parameters using Taguchi method*, Materials Today Proceedings Elsevier Ltd., ISBN No.2214-7853, Vol No.64, pp.11-19, April, 2022
- Dr.B.Balu Naik, *Evaluation of Thermal Properties by Incorporating perforations of various Shapes in fins made with aluminum*, Materials Today, pp.609-614, 2021
- Dr.B.Balu Naik, *High Temperature deformation and formability behaviour of DP590 Steel*, Mechanical Characterization and modeling Journal of Brazilian Society of Mechanical Sciences and Engineering, pp.470-472, September, 2021
- Dr.B.Balu Naik, *Optimization of Circularity in wire EDM Process for Different Diameters*, International Journal of Engineering and Techniques, ISBN No.2395-1303, Vol No.4, Issue No.1, pp.628-631, February, 2018
- Dr.B.Balu Naik, *Comparative Analysis of Surface Ace Finish and Circularity by Varying Number of Cuts in Wire EDM*, International Journal of Engineering and Technology, Management and Applied Science (IJAEATMAS), ISBN No.2349-3224, Vol No.5, Issue No.3, pp.145-154, March, 2018
- Dr.B.Balu Naik, *Performance and Emission of C.I Engine with Different Piston Crown Materials with Ethanol as Fuel*, International Journal of Scientific Research and Review, ISBN No.2279-543X, Vol No.7, Issue No.7, pp.505-517, 2018
- Dr.B.Balu Naik, *Performance and Emission Characteristics of Glow Plug Hot Surface Ignition C.I Engine Using Ethanol as Fuel with Additives*, International Journal of Management, Technology and Engineering, ISBN No.2249-7455, Vol No.8, Issue No.7, pp.1059-1070, July, 2018
- Dr.B.Balu Naik, *Performance Characteristics of a Glow Plug Assisted Low Heat Rejection Diesel Engine using Methanol as Fuel with Additives-JASC*, Journal of Applied Science and Computations, ISBN No.1076-5131, Vol No.5, pp.121-135, August, 2018
- Dr.B.Balu Naik, *Understanding Friction in Sheet Metal Forming*, Elsevier Science Direct ICMPM, 2018, ISBN No.18238-18244, 2018
- Dr.B.Balu Naik, *Optimization of a single Cylinder, 4-Stroke diesel engine performance parameters using Diesel/Cotton seed Oil Blend with Hydrogen Induction by Taguchi Method*, International Journal of Mechanical Engineering and Technology (IJMET), ISBN No.0976-6359, Vol No.8, Issue No.1, pp.62-69, 1 January, 2017
- Dr.B.Balu Naik, *Performance and emission characteristics of a diesel engine with varying injection pressure and fueled with hydrogen and cottonseed oil methyl ester blends*, ICMPM, 2017
- Dr.B.Balu Naik, *Studies on Non Destructive test of Friction stir welding of AA 7075 metal composites welds*, International Journal of Advance Research in Science and Engineering, ISBN No.2319-8354, Vol No.6, Issue No.6 & 7, pp.249-254, July, 2017
- Dr.B.Balu Naik, *Fabrication and Friction stir welding of Aluminum 7075/Wc Metal Matrix Composites*, International Journal of Advance Research in Science and Engineering, ISBN No.2319-8354, Vol No.6, Issue No.8-453, 460, August, 2017
- Dr.B.Balu Naik, *Heat Transfer Through Bonded and Coated Composite Fins*, International Journal of Advanced Technology in Engineering and Science, ISBN No.2348-7550, Vol No.5, Issue No.7, July, 2017
- Dr.B.Balu Naik, *Recent Investigations on Parametric Optimization of Adrasive Water Jet-Machining of Super Alloys and various materials-A Review ICPET*, March, 2016
- Dr.B.Balu Naik, *Recent Trends in Resistance Spot Welding of Aluminum Alloy in Automotive Industry*, in ILTET Journal, June, 2016
- Dr.B.Balu Naik, *Alcohol as Alternative Fuels for Diesel Engines*, International Journal for Research in Applied Science & Engineering Technology, ISBN No.2321-9653, Vol No.3, Issue No.6, June, 2015
- Dr.B.Balu Naik, *Laser Ignition System for Internal Combustion Engine*, International Journal of Engineering and Computer Science, ISBN No.2319-7242, Vol No.4, Issue No.4, pp.11407-11412, April, 2015
- Dr.B.Balu Naik, *Effect of Liquid nitrogen on friction stir welder joint of magnesium alloy AZ31B*, International Journal of Applied Engineering and Technology, ISBN No.2277-212X, Vol No.5, Issue No.2, pp.40-44, April-June, 2015
- Dr.B.Balu Naik, *Microstructure and Mechanical Properties of Friction Stir Welded AZ31B Magnesium Alloy*, International Journal of Ethics in Engineering & Management Education, ISBN No.2348-4748, Vol No.2, Issue No.6, June, 2015
- Dr.B.Balu Naik, *Investigating the effect of Cryogenic Process on a Friction Stir Welding AZ31b Magnesium Alloy*, International Journal of Advanced Research Foundation, ISBN No.2394-3394, Vol No.2, Issue No.5, May, 2015
- Dr.B.Balu Naik, *Experimental Investigation of Bi directional carbon Fiber Composite*, 4th International Conference on Materials Processing and Characterization (ICMPC 2015), 2015
- Dr.B.Balu Naik, *Eucalyptus-Plam Kernel Oil Blends: A Complete Elimination of Diesel in a 4-Stroke VCR Diesel Engine*, Hindawi Publishing Corporation, Journal of Combustion, ISBN No.182879, 2015
- Dr.B.Balu Naik, *Modeling and Simulation of Direct Injection Diesel Engine to Analyze Combustion and Emission using KIVA 3V Code*, International Journal of Applied Engineering Research, ISBN No.0973-4562, Vol No.10, pp.42949-42954, 2015
- Dr.B.Balu Naik, *Development of a composite materials from agro waste for wear resistance applications*, Journal of chemistry and chemical Engineering, ISBN No.1934-7375mUSA, International Journal, 2014
- Balu Naik Banoth, *Development of a composite materials from agro waste for wear resistance application*, Journal of Chemistry and Chemical Engineering, ISBN No.ISSN: 1934-7375M, 2014
- Dr.B.Balu Naik, *Formability Studies of ASS 304 and evaluations of friction for Al in deep drawing setup at elevated temperature using LS-DYNA*, Journal of king Saud University-Engineering Sciences, pp.21-31, 2014
- Dr.B.Balu Naik, *Experimental Investigations of HSS M2 alloy on wire electric discharge machining process using Taguchi methodology*, International Journal of Engineering Science and Innovative Technology, May, 2014
- Dr.B.Balu Naik, *Some Metallurgical Studies of Austenitic Stainless Steel 304 under warm deep drawing*, Journal Iron and Steel Research International, 2014
- Dr.B.Balu Naik, *Parametric Optimization of Tool Wear Rate in Micro Drilling of Maraging Steel 300 Alloy*, A Technical Journal, ISBN No.2277-1654, Vol No.13, pp.33-40, 2014
- Balu Naik Banoth, *Formability Studies of ASS 304 and evaluations of friction for Al in deep drawing setup at elevated temperature using LS-DYNA*, Journal of King Saud University e6" Engineering Sciences (2014), pp.21-31, 2014
- Dr.B.Balu Naik, *Optimizing the Process Parameters of Friction stir welded joint of magnesium alloy AZ13B*, International Journal of Research in Engineering & Technology, ISBN No.2319-1163-2321, 2308, May, 2014
- Dr.B.Balu Naik, *Mechanical Behavior of Friction stir welded joint of magnesium alloy AZ31 by Taguchi*, International Journal of Ethics in Engineering & Management Education, ISBN No.2348-4748, Vol No.1, Issue No.3, March, 2014
- Dr.B.Balu Naik, *Mechanical Behavior of Friction stir welded joint of magnesium alloy AZ31 by Taguchi*, International Journal of Ethics in Engineering & Management Education, ISBN No.2348-4748, Vol No.1, Issue No.3, March, 2014
- Dr.B.Balu Naik, *Mechanical Behavior of Friction stir welded joint of magnesium alloy AZ31 by Taguchi*, International Journal of Ethics in Engineering & Management Education, ISBN No.2348-4748, Vol No.1, Issue No.3, March, 2014
- Dr.B.Balu Naik, *Performance Characteristics of VCR Engine with Diesel Additive and Eucalyptus oil*, Aspects of Mechanical Engineering and Technology for Industry, ISBN No.978-93-83842-96-4, 2014
- Dr.B.Balu Naik, *Experimental Investigations of HSS M2 Alloy on Wire Electric discharge machining Process using Taguchi Methodology*, International Journal of Engineering Sciences and Innovative Technology (IJEST), ISBN No.2319-5967, Vol No.3, Issue No.3, May, 2014
- Dr.B.Balu Naik, *Optimization of IRSW Process Parameters by Taguchi Method (IJMST)*, ISBN No.8, Vol No.2, pp.157-171, December, 2014
- Dr.B.Balu Naik, *Study on Nugget Development in RSW Process with Flat Tip Cylinder Electrode*, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), ISBN No.2278-1684, Vol No.11, Issue No.5, pp.9-17, Sep-Oct, 2014
- Dr.B.Balu Naik, *Influence of Welding Parameters on Nugget Formation in RSW Process*, International Journal of Emerging Technology and Advance Engineering, ISBN No.2250-2459, Vol No.4, Issue No.6, June, 2014
- Dr.B.Balu Naik, *RSW Process Parameters Optimization by Taguchi Method*, (IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), ISBN No.2278-1684, Vol No.11, Issue No.5, pp.46-54, Sep-Oct, 2014
- Dr.B.Balu Naik, *Optimization of IRSW Process Parameters by Taguchi Method*, IJMST, ISBN No.8, Vol No.2, pp.157-171, December, 2014
- Dr.B.Balu Naik, *Optimization of IRSW Process Parameters by Taguchi Method*, IJMST, ISBN No.8, Vol No.2, pp.157-171, December, 2014
- Dr.B.Balu Naik, *Some aspects of formability of ASS 304 under conditions*, Journal of Manufacturing Engineering, Vol No.8, pp.221-224, December, 2013
- Balu Naik Banoth, *Some aspects of formability of ASS 304 under conditions*, Journal of Manufacturing Engineering, Vol No.8, pp.221-224, December, 2013
- Dr.B.Balu Naik, *Morphology of machined surfaces from Electro discharge sawing and sinking EDM*, International Conference cum Journal- World Academy of Science, Engineering and Technology, 2013
- Dr.B.Balu Naik, *Study of Investigations on process parameters of Electro Discharge sewing using TAGUCHI approach*, International Journal of Engineering Research and Technology, July, 2013
- Dr.B.Balu Naik, *Investigating the Effect of Machining Parameters on Micro drilling of Titanium Grade 19 Alloy*, ASME 2013 International Mechanical Engineering Congress and Exposition, ISBN No.978-0-7918-5619-2, Vol No.2B, Advanced Manufacturing San Diego, California, USA, 15-21 November, 2013
- Dr.B.Balu Naik, *Experimental Investigation of Performance and Emission Characteristics of Methyl Ester Palmkernel Oil-Eucalyptus Oil Blends in a single cylinder diesel engine*, International Journal of Mechanical Engineering Research & Applications (IJMERA), ISBN No.2347--1719, Vol No.1, Issue No.3, August, 2013
- Dr.B.Balu Naik, *Study of Investigation on Process Parameters of Electro Discharge Sawing Using Taguchi Approach*, International Journal of Engineering Research & Technology, ISBN No.2278-0181, Vol No.2, Issue No.7, July, 2013
- Dr.B.Balu Naik, *Low Energy Consumption HVAC Systems for Green Buildings Using Chilled Beam Technology*, International Journal of Advanced Research in Engineering and Technology (IJARET), ISBN No.0976-6480, Vol No.4, Issue No.3, pp.316-324, April, 2013
- Dr.B.Balu Naik, *An overview of Low Energy HVAC Systems for High Performance Buildings*, Air Conditioning and Refrigeration Journal, Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), pp.56-58, July-August, 2013
- Dr.B.Balu Naik, *Development of Indirect resistance spot welding for automotive application*, International Journal of Advanced Materials Manufacturing & Characterization, ISBN No.2, Vol No.1, pp.199-199, October, 2012
- Dr.B.Balu Naik, *Ingredients Compositions formulations and Development of a new metal matrix composite for friction lining applications using MINITAB16*, International Journal of Engineering and Technology, ISBN No.1, Vol No.1, Issue No.2251-3701, pp.99-104, GSTF, Singapore, June, 2012
- Dr.B.Balu Naik, *Effect of grit size and abrasive type on surface of machined AL-SiC MMC*, International Journal of Manufacturing Engineering, ISBN No.2, Vol No.7, Issue No.0973-6867, pp.67-71, SMF Publication, June, 2012
- Balu Naik Banoth, *Development of Indirect resistance spot welding for automotive application*, Publication International Journal of Advanced Materials Manufacturing & Characterization, Vol No.1, Issue No.2, pp.199, October, 2012
- Balu Naik Banoth, *Ingredients Compositions formulations and development of anew metal matrix composite for friction lining applications using MINITAB16*, International Journal of Engineering and Technology, Publishers GSTF, Singapore, ISBN No.ISSN: 2251-3701, Vol No.1, Issue No.1, pp.99-104, June, 2012
- Balu Naik Banoth, *Effect of grit size and abrasive type on surface of machined AL-SiC MMC*, International Journal of Manufacturing Engineering SMF Publications, ISBN No.ISSN: 0973-6867, Vol No.7, Issue No.2, pp.67-71, June, 2012
- Dr.B.Balu Naik, *Experimental Investigation of Process Parameters of Electro discharge sawing, a modified EDM using TAGUCHI approach*, International Journal of emerging technology and advanced engineering, November, 2012
- Balu Naik Banoth, *Experimental Investigations of process parameters of electro discharge sawing, a modified EDM using TAGUCHI approach*, International journal of emerging technology and advanced engineering, 11, 2012
- Dr.B.Balu Naik, *Performance and Emission analysis of Single Cylinder diesel engine fueled with methyl ester mustard oil blended to diesel additive*, International Symposium on "Recent advances in integrated Energy and energy Conservation(RAIEEC-2012), 19-20 December, 2012
- Dr.B.Balu Naik, *Effect of Tool Geometry on Joint Properties of Friction Stir Welded Al/Cu Bimetallic Lap Joints*, The IUP Journal of Mechanical Engineering, Vol No.1, pp.38-50, February, 2012
- Dr.B.Balu Naik, *Finite Element Modeling and Thermo Mechanical Analysis of Friction Stir Welded Al/Cu Lap Bimetallic Lap Joints*, International Journal of Mechanical Engineering and Robotics Research, ISBN No.2278-0149, Vol No.1, Issue No.2, Julu, 2012
- Dr.B.Balu Naik, *Experimental Investigations on Process Parameters of Electrodicharge Sawing. A modified EDM using TAGUCHI Approach*, International Journal of Emerging Technology and Advanced Engineering, ISBN No.2250-2459, Vol No.2, Issue No.1, November, 2012
- Dr.B.Balu Naik, *Reengineering treatment in Block Replacement Decision Using Higher Order Mark Chains*, IUP Journal of Operations Management, ISBN No.0972-6888, Vol No.4, pp.1-17, 2011
- Dr.B.Balu Naik, *First Order Markov Chain Modeling for Replacement of Computers*, International Journal of Applied Engineering Research, ISBN No.0973-4562, Vol No.7, pp.861-871, 2011
- Dr.B.Balu Naik, *Development of Mathematical Model for Group Replacement of Electronic System Using Markov Chains*, International Journal Technology Today, ISBN No.2180-0987, Vol No.3, Issue No.1, pp.175-182, January, 2011
- Dr.B.Balu Naik, *Development of Mathematical Model for Block Replacement of Electronics Systems with second order Markov Chain Indian of Mathematics an Mathematical Science*, ISBN No.0973-3329, Vol No.7, pp.1-11, June, 2011
- Dr.B.Balu Naik, *Development of Bio-degradable friction material for brake pads form Palm Kernel Shell*, International Journal of Mechanical Engineering and Materials Science, ISBN No.0974-584X, Vol No.4, Issue No.1, pp.1-6, June, 2011
- Balu Naik Banoth, *Reengineering treatment in Block Replacement Decision Using Higher Order Markov Chains*, IUP Journal of Operations Management, ISBN No.ISSN 0972-6888, Vol No.10, Issue No.4, pp.1-17, 2011
- Balu Naik Banoth, *First Order Markov Chain Modeling for Replacement of Computers*, International Journal of applied Engineering Research, ISBN No.ISSN 0973-4562, Vol No.7, pp.861-871, 2011
- Balu Naik Banoth, *Deployment of Mathematical Model for Group Replacement of Electronic System Using Markov Chains*, International Journal Technology Today, ISBN No.ISSN 2180-0987, Vol No.8, Issue No.1, pp.175-182, January, 2011
- Balu Naik Banoth, *Development of bio-degradable friction material for brake pads form Palm Kernel Shell*, International Journal of Mechanical Engineering and Materials Science, ISBN No.ISSN-0974-584X, Vol No.4, Issue No.1, pp.1-6, June, 2011
- Dr.B.Balu Naik, *Parametric Study of Microwave horn antenna for optimum surface finish and improving electrical performance*, Global Journal of Mechanical Engineering & Computer Sciences, Vol No.4, Issue No.1, 2011
- Dr.B.Balu Naik, *Evaluation of Joint Properties of Friction Stir Weld Al/Cu Bimetallic Lap Joints Made by threaded tool*, Technology Spectrum, ISBN No.0974-6854, Vol No.5, Issue No.3, 2011
- Dr.B.Balu Naik, *Performance and emission characteristics of a diesel engine with kanuga and cotton seed oil as alternate fuels*, International Journal of Mechanics and Thermodynamics, Vol No.1, pp.1-11, International Journal of Mechanics and Thermodynamics, 2010
- Dr.B.Balu Naik, *Prediction of Surface Roughness in Machining of Homogenized SiCP Reinforced Aluminum Metal Matrix Composites Using Multiple Regression Analysis*, Vol No.4, Issue No.2, pp.81-91, International Journal of manufacturing Science and Technology, December, 2010
- Dr.B.Balu Naik, *"Effect of Process Parameters on Mechanical Properties of Friction Stir Welding Aluminum/ Copper Lap Joint"*, Vol No.4, Issue No.2, pp.149-161, International Journal of Manufacturing Science and Technology, December, 2010
- Balu Naik Banoth, *Performance and emission characteristics of adisel engine with kanuga and cotton seed oil As alternate flues*, Publication of International Journal of Mechanics and Thermodynamics, Vol No.1, Issue No.1, pp.1-11, 2010
- Balu Naik Banoth, *Prediction of Surface Roughness in Machining of Homogenized SiCP Reinforced Aluminum Metal Matrix Composites Using Multiple Regression Analysis*, Publication of International Journal of Manufacturing Science and Technology, Vol No.4, Issue No.2, pp.81-91, December, 2010
- Balu Naik Banoth, *Effect of Process Parameters on Mechanical Properties of Friction Stir Welding Aluminum/Copper Lap Joint*, Publication of International Journal of Manufacturing Science and Technology, Vol No.4, Issue No.2, pp.149-161, December, 2010
- Dr.B.Balu Naik, *Effect of Process Parameters on Mechanical Properties of Friction Stir Welded Al/Cu Lap Joints*, International Journal of Manufacturing Science and Technology, pp.149-161, December, 2010
- Dr.B.Balu Naik, *Effect of Process Parameters on Mechanical Properties of Friction Stir Welded Al/Cu Lap Joints*, International Journal of Manufacturing Science and Technology, pp.149-161, December, 2010
- Dr.B.Balu Naik, *Evaluation of Tension-Shear Stress for single and Multi Spot Welds: Direct and Indirect Techniques*, International Journal of Manufacturing Science and Technology, Vol No.3, Issue No.1, pp.59-80, June, 2009
- Balu Naik Banoth, 17, *Evaluation of Tension-Shear stress for single and multi spot welds: Direct and indirect Techniques*, International Journal of Manufacturing Science and Technology, Vol No.3, Issue No.1, pp.59-80, 6, 2009
- Dr.B.Balu Naik, *Applications of Design of Experiments on Direct and Indirect Resistance Spot Welding for Low Carbon Steel Fabrication*, International Journal of Manufacturing, Science & Technology, pp.11-28, International Journal of Manufacturing, Science & Technology, 02th June, 2008
- Dr.B.Balu Naik, *Design Approach for Automotive spot welding*, International Journal of Manufacturing Science & Technology, December, 2008
- Dr.B.Balu Naik, *Heat Balance Studies in Resistance Spot Welds*, International Journal of Highly reliable Electronics Systems, Vol No.1, Issue No.2, pp.59-80, International Science Press, July-December, 2008
- Balu Naik Banoth, *Applications of Design of Experiments on Direct and Indirect Resistance Spot Welding for Low Carbon Steel Sheet Fabrication*, International Journal of Manufacturing Science & Technology, pp.11-28, 6, 2008
- Balu Naik Banoth, *Design Approach for Automotive spot welding*, International Journal of Manufacturing Science & Technology, 12, 2008
- Balu Naik Banoth, *Heat balance studies in Resistance Spot welds*, International Journal of Highly reliable Electronics Systems, Vol No.1, Issue No.2, International Science press, 12, 2008
- Dr.B.Balu Naik, *Finite Element Modelling and Analysis of Friction Stir Welding*, International Conference on Recent Advances in Materials, J.N.T.University Hyderabd, 2007
- Dr.B.Balu Naik, *Optimizing the Process Parameters of Friction Stir Welded joint of magnesium alloy AZ31B*, International Journal of Research in Engineering & Technology
- Dr.B.Balu Naik, *Study of Investigation on Process Parameters of Electro Discharge Sawing using Taguchi Approach*, International Journa
- Dr.B.Balu Naik, *Study of Investigation on Process Parameters of Electro Discharge Sawing using Taguchi Approach*, International Journal
- Dr.B.Balu Naik, *Performance and Emission Analysis of Porous Media Combustion Chamber in Diesel Engines Using KIVA 3V Code*, International Journal of Mechanical and Production Engineering Research and Development (JMPERD), ISBN No.2249-689
- Dr.B.Balu Naik, *Optimization of Cutting Parameters in Wire EDM to Minimize Circularity Error*, Anveshana's International Journal of Research in Engineering and Applied Science, ISBN No.2455-6300, Vol No.3, Issue No.4, pp.241-244
- Dr.B.Balu Naik, *Performance and Emissions Characteristics of C.I Engine with Different Piston Crown Materials Fueled with Metanol*, International Journal of Engineering Research and Development, ISBN No.2278-067X, Vol No.14, Issue No.7, pp.21-31
- Dr.B.Balu Naik, *Performance and Emission of C.I Engine Using Methanol as Fuel with Additives*, International Journal of Research, ISBN No.2236-6124, Vol No.7, Issue No.7, pp.494-505
- Dr.B.Balu Naik, *Evaluation of Convective Heat Transfer Coefficient and Heat Transfer Rates Through Aluminum Metal Matrix Composite Fin made by stir casting*, Material Science and Engineering

**- National Journals**

- Dr.B.Balu Naik, *Block Replacement Modeling for Electronics Systems with Higher Order Markov Chains*, UP Journal of Computational Mathematics, ISBN No.0974-6544, Vol No.1.2, pp.49-63, June, 2011
- Balu Naik Banoth, *Block Replacement Modeling for Electronics Systems with Higher Order Markov Chains*, UP Journal of Computational mathematics, ISBN No.ISSN 0974-6544, Vol No.4, Issue No.2, pp.49-63, June, 2011
- Dr.B.Balu Naik, *Performance and emission characteristics a diesel engine with kanuga and cotton seed oil as alternate fuels*, Vol No.4, Issue No.3, Publications of Technology Spectrum, Journal of Jawaharlal Nehru Technological University, Hyderabad, November, 2010
- Balu Naik Banoth, *Performance and emission characteristics a diesel engine with kanuga and cotton seed oil as alternate fuels*, Publications of Technology Spectrum, Journal of Jawaharlal Nehru Technological University, Vol No.4, Issue No.3, November, 2010

#### International Conference

- Dr.B.Balu Naik, *Optimization of Design Parameters for Lateral Circular perforated Fin using Taguchi DOE Method*, International Conference on Engineering and Advancement in Technology (ICEAT-2022), ISBN No.978-93-81288-22-1, Vol No.11, Issue No.6, pp.817-826, June, 2022
- Dr.B.Balu Naik, *Comparative Study of Dual-Phase-590 steel on formability at Superplastic Region and Room temperature E3S*, ICMED 2021, 2021
- Dr.B.Balu Naik, *Effect of Tool rotational Speed on the mechanical and microstructure properties of friction stir welded AL6061MMCS*, International Conference on Processing of Materials, Minerals and Energy PMME-2016 , Pace Institute of Technology & Science, Ongole,Prakasam Dist.,A.P, 29-30 July , 2016
- Dr.B.Balu Naik, *Industrial Waste of Fly Ash: An alternative moulding material for Foundry Industry*, International Conference on Processing of Materials, Minerals and Energy PMME-2016 , Pace Institute of Technology & Science,Ongole, Prakasam Dist., A.P., 29-30 July, 2016
- Dr.B.Balu Naik, *A Review on Optimization of performance and emission characteristics of C.I Engine operated on Bio-Diesel Fuel Using Taguchi method*, 1st International Conference on recent Innovations in Engineering and Technology (ICRIEAT-2016), ISBN No.978-1-5396-2645-9, pp.1772-1775, 2016
- Dr.B.Balu Naik, *Study on heat transfer through perforated fins*, International Conference on 23aradigms in Engineering and Technology (ICPET 2016), 2016
- Dr.B.Balu Naik, *Heat Transfer Enhancement through perforated Fins*, International Conference on Emerging trends in Mechanical Engineering (ICETIME - 2016), Faculty of Science and Technology ICFAI Foundation of Higher Education,Hyderabad, 23-24 September, 2016
- Dr.B.Balu Naik, *Laser Ignition System for Internal Combustion Engine*, International Conference on Emerging Trends in Engineering Research, ISBN No.978-15-086565-24, Hotel NRS Sakithyan Chennai, 22 MARCH, 2015
- Dr.B.Balu Naik, *An Entrepreneurship Opportunity on Bio-Diesel as an alternative Green Fuel to Internal Combustion Diesel Engine*, 2nd International Conference on Next Generation Education for Entrepreneurial Engineers, ISBN No.978-93-84743-53-6, 9-10 March, 2015
- Dr.B.Balu Naik, *Realization of surface morphology and process parameter optimization in Micro EDM hole drilling of mar aging steel 300 alloy*, ASME 2015 International Mechanical Engineering Congress & Exposition IMECE2015, Houston,Texas,USA, 13-19 November, 2015
- Dr.B.Balu Naik, *Resistance Spot Weld Quality Characteristics Improvement by Taguchi Method*, 4th International Conference on "Materials Processing and Characterization Proceedings", pp.2595-2604, 2015
- Dr.B.Balu Naik, *Resistance Spot Weld Quality Characteristics Improvement by Taguchi Method*, 4th International Conference on Materials Processing and Characterization (ICMPC 2015), 2015
- Dr.B.Balu Naik, *Characterization of Aluminum matrix composites (AA6061/ B4C) Fabricated by stir Casting Technique*, 4th International Conference on Materials Processing and Characterization (ICMPC 2015), 2015
- Dr.B.Balu Naik, *Experimental Investigation of Bi directional Carbon Fiber Composite*, 4th International Conference on Materials Processing and Characterization ICMPC 2015, 2015
- Dr.B.Balu Naik, *Finite Elements Simulation Studies for ASS 304 for Deep Drawing at Various Temperatures*, 4th International Conference on Materials Processing and Characterization (ICMPC 2015), 2015
- Dr.B.Balu Naik, *Finite elements simulation studies of AISI 304 for deep Drawing at various Temperatures*, 4th International Conference on Materials Processing and Characterization,Materials, pp.1978-1986, 2015
- Dr.B.Balu Naik, *Investigation and Analysis of Moulding Properties of Fly Ash: An alternative Moulding Material to Make Non-Ferrous Castings*, 5th International Conference on Solid Waste Management-Bengaluru,Karnataka, 25-27 November, 2015
- Dr.B.Balu Naik, *Friction Stir Welding of AZ31 MG Alloy*, International Conference on Engineering Trends in Mechanical Engineering, 24-25 February , 2014
- Dr.B.Balu Naik, *Experimental Design and Analysis of Relative effects of variable factors on Electro discharge sawing process using Taguchi approach*, International Conference cum Journal on Materials processing and characterization , 2014
- Balu Naik Banoth, *Friction Stir Welding of AZ31 MG Alloy*, International Conference on Engineering Trends in Mechanical Engineering, 24th - 25th February , 2014
- Dr.B.Balu Naik, *Investigation of physiochemical properties of fly Ash from Kothagudem Thermal Power Station*, International Conference on "Environment and Energy", ISBN No.978-93-81212-96-7, 2014
- Dr.B.Balu Naik, *Characterization of friction stir welded joint AZ31 by Taguchi*, Conference on Recent Innovation in Mechanical Engineering, ISBN No.978-93-83038-13-8, Hyderabad, 21 March, 2014
- Dr.B.Balu Naik, *Friction Stir Welding of AZ31 MG Alloy*, International Conference on Emerging Trends in Mechanical Engineering, ISBN No.978-93-82163-09-1, Vol No.1, 24-25 February, 2014
- Dr.B.Balu Naik, *Thermal Energy Storage System for Cooling Green Buildings*, International Conference on Environment and Energy (ICEE-2014), JNTUH Kukatpally,Hyderabad, 15-17 December, 2014
- Dr.B.Balu Naik, *Study of Formability and Thickness Distribution in Warm Forming of ASS 304*, 4th International & 25th AIMTDR Conference 2012, 2012
- Dr.B.Balu Naik, *Study of Micro Hardness of Deep Drawn Cups for Austenitic Stainless steel-304 under warm conditions*, International Conference , pp.16, GRT Grand Chennai, 27 to 29 September , 2012
- Dr.B.Balu Naik, *Experimental Investigation of Punch load of ASS 304 at various Temperature*, International Conference on Materials Processing and Characterization , Hyderabad, 8 -10th March , 2012
- Dr.B.Balu Naik, *Micro hardness Studies of Austenitic Stainless Steel-304*, International Conference on Materials Processing and Characterization , Hyderabad, 8-10th March , 2012
- Dr.B.Balu Naik, *Simulation and experimental investigation of AA 304 AT Various temperatures in warm deep drawing forming Process*, International Conference on Smart Systems (ICSS- 2013), Hyderabad,India, 07-08 October, 2012
- Balu Naik Banoth, *Study of Formability and Thickness Distribution in Warm Forming of ASS 304*, 4th International & 25th AIMTDR Conference , 2012
- Balu Naik Banoth, *Study of Micro hardness of Deep Drawn Cups for Austenitic Stainless steel-304 under warm Conditions*, International Conference, PP: 16 and participated in the HNS-2012 conference, 27th to 29th September, 2012
- Balu Naik Banoth, *Experimental Investigation of Punch load of ASS 304 at various Temperatures*, International Conference on Materials Processing and characterization, March 8-10, 2012
- Balu Naik Banoth, *Micro hardness Studies of Austenitic Stainless Steel-304*, International Conference on Materials Processing and Characterization, March 8-10, 2012
- Balu Naik Banoth, *Simulation and experimental investigation of AA 304 at Various temperatures in warm deep drawing forming Process*, International Conference on Smart Systems (ICSS-2013), 07-08 October, 2012
- Dr.B.Balu Naik, *Effect of Process Parameters on Tool wear rate in Micro Drilling of Maraging Steel 300 Alloy*, 4th International Conference & 25th All India Manufacturing Technology,Design and Research Conference (AIMTDR 2012), Jadavpur University Kolkata,India, 14-16 December, 2012
- Dr.B.Balu Naik, *High Efficiency HV AC System for High Performance Building*, RITS-International Conference on Advancement in Engineering & Management, 28-29 February, 2012
- Dr.B.Balu Naik, *High Efficiency HVAC system for High Performance Building*, RITS International Conference on Advancements in Engineering & Management, 28-29 February, 2012
- Dr.B.Balu Naik, *High Efficiency HVAC system for High Performance Building*, RITS International Conference on Advancements in Engineering & Management, 28-29 February, 2012
- Dr.B.Balu Naik, *Ingredients Compositions Formulations and development of a new metal matrix composite for friction Lining applications using MINITAB16*, Annual International Conference on Materials Science,Metal & Manufacturing (M3 2011), ISBN No.2251-1857, pp.7-13, Michigan Technological University , 12-13 December, 2011
- Dr.B.Balu Naik, *Comparative evaluation of surface finish (Ra) for AL-SiCp metal Matrix Composite machining with diamond grinding wheel using multiple regression analysis and ANN(MATLAB)*, 5th International Conference on Advance in Mechanical Engineering(ICAME-2011), pp.586-591, National Institute of Technology,surat,India, June, 2011
- Dr.B.Balu Naik, *Performance of different grinding wheels machining of AL-Sic Metal Matrix Composite*, International Conference on futuristic Trends in Materials & Energy Systems FTME 2011, pp.29-30, V.R Siddhartha Engineering College, Vijayawada-520007,Andhra Pradesh, India, ,December, 2011
- Balu Naik Banoth, *Ingredients Compositions Formulations and development of a new metal matrix composite for friction Lining applications using MINITAB16*, Annual International Conference on Materials Science, Metal & manufacturing (M3 2011), ISBN No.ISSN-2251-1857, Michigan Technological University, December 12-13, 2011
- Balu Naik Banoth, *Comparative evaluation of surface finish (Ra) for AL-SicP metal Matrix Composite machining with diamond grinding wheel using multiple regression analysis and ANN(MATLAB)*, 5th International Conference on Advance in Mechanical Engineering (ICAME-2011), pp.586-591, S.V. National Institute of Technology, Surat, India, June, 2011
- Balu Naik Banoth, *Performance of different grinding wheels machining of AL-Sic Metal matrix Composite*, International Conference on Futuristic Trends in Materials & Energy Systems FTME 2011, 29-30 December , 2011
- Dr.B.Balu Naik, *Experimental Analysis of Z-Pinned Carbon Fiber Composites*, International Conference on Advanced Materials and Manufacturing Technologies(AMNT), ISBN No.978-93-82163-46-6, 2011
- Balu Naik Banoth, *Experimental Analysis of Z-Pinned Carbon Fiber Composites*, International Conference on Advanced Materials and Manufacturing Technologies (AMMT), ISBN No.978-93-82163-46-6, 2011
- Dr.B.Balu Naik, *Parametric Optimization in Friction Stir Welding Aluminum/ Copper Dissimilar Materials Lap Joint*, International Conference on Advanced Materials, Manufacturing, Management & Thermal Sciences, Siddhartha Institute of Technology,Tumkur, 18-19 November, 2010
- Dr.B.Balu Naik, *"Forecast of Price inflation for Electronic System"*, International Conference on Global Interdependence and Decision Sciences(ICGIDS), ISBN No.0230-3285-0, pp.151-155, at Administrative Staff College of India (ASCI),Hyderabad, 28-30 December , 2009
- Balu Naik Banoth, *Forecast of Price inflation for Electronic Systems*, International Conference on Global Interdependence and Decision Sciences (ICGIDS) at Administrative Staff College of India (ASCI), ISBN No.ISBN 0230-32852-0, pp.151-155, 28-30 December , 2009
- Dr.B.Balu Naik, *Forecast of Inflation for Electronic System*, International Conference on Global Interdependence and Decision Sciences (ICGIDS), ISBN No.0230-32852-0, pp.151-155, Administrative Staff College of India ASCI Hyderabad, December , 2009
- Balu Naik Banoth, 38. *Forecast of Inflation for Electronic Systems*, International Conference on Global Interdependence and Decision Sciences (ICGIDS) at Administrative Staff College of Indian (ASCI), Hyderabad, ISBN No.ISBN 0230-32852-0, pp.151-155, 28-30 December , 2009
- Dr.B.Balu Naik, *Effect of Typical Process Parameters of Electro Discharge Sawing using Taguchi Method*, International Congress of 2008,ASME International Mechanical Engineering Congress and Expositions, ISBN No.IMECE-2008, 31st October to 06th November, 2008
- Balu Naik Banoth, *Effect of Typical Process Parameters of Electro Discharge Sawing using Taguchi Method*, International Congress of 2008, ASME International Mechanical Engineering Congress and Expositions (IMECE-2008), 11, 2008
- Dr.B.Balu Naik, *Finite Element Modeling and Analysis of Friction Stir Welding International Conference on Recent Advances in Materials*, Processing and Characterization, V.R Siddhartha Engineering College, Vijayawada, A.P., pp.37-42, 3-4 July, 2008
- Dr.B.Balu Naik, *Thermal Design and Analysis of Avionics*, International Conference on 01st Asian Symposium on Computational Heat Transfer and Fluid Flow , Xian, China, 18th to 21st October , 2007
- Dr.B.Balu Naik, *Phenomenological Three Zone Model Prediction for Fuel Spray Penetration and air Entertainment of Four Stroke C.I Engine*, 19th International Conference at Mechanical Engineering, ISBN No.COBEM-2007, Brasilia, Brazil, 5th to 9th November , 2007
- Dr.B.Balu Naik, *Review on Bio-Diesel Exhaust at Emission Basic, Standard & Control Measures*, International Conference & XX National Conference on I.C Engine & Combustion, ISBN No.ICONICE-2007, J.N.T.University Hyderabad, 06th to 09th December , 2007
- Balu Naik Banoth, *Thermal Design and Analysis of Avionics*, International Conference on 01st Asian Symposium on Computational Heat Transfer and Fluid Flow , 10, 2007
- Balu Naik Banoth, *Phenomenological Three Zone Model Prediction for Fuel Spray Penetration and air Entertainment of Four Stroke C.I Engine*, 19th International Congress of Mechanical Engineering (COBEM-2007) , 11, 2007
- Balu Naik Banoth, *Review on Bio-Diesel Exhaust at Emission Basic, Standard & Control Measures*, International Conference & XX National Conference on I.C Engine & Combustion (ICONICE-2007), 12, 2007
- Balu Naik Banoth, *Finite Element Modeling and Analysis of Friction Stir Welding*, International Conference of Recent Advances in Materials 2007, 2007
- Dr.B.Balu Naik, *Finite Element Molding of some Fracture Mechanisms*, International Conference of advances in Material Proceeding Technology, ISBN No.RAPET-2005, pp.265-270, KoriPathi,Tamil Nadu, 23rd to 25th February, 2005
- Balu Naik Banoth, *Finite Element Molding of some Fracture Mechanisms*, International Conference of recent advances in Material proceeding Technology (RAMPT-2005), pp.265-270, 2, 2005
- Dr.B.Balu Naik, *Development of a composite from agro waste for wear resistance application*, 15th international conference on Advanced in Materials & Proceeding Technologies (AMOT 2012), University of Wollongong, Australia.PNAM-12007
- Balu Naik Banoth, *Development of a composite from agro waste for wear resistance applications*, 15th International Conference on Advanced in Materials & Proceeding Technologies (AMOT 2012), ISBN No.PNAM-12007, University of Wollongong, Australia

#### National Conference

- Dr.B.Balu Naik, *Experimental Investigation of the Suitability of Hydrogen with Cottonseed Oil as Alternate Fuel for IC Engines*, 6th National Conference on Advances in Mechanical Engineering(AIM-2016), pp.34-43, Vasavi College of Engineering(A),Hyderabad,T.S., 6-7 October, 2016
- Dr.B.Balu Naik, *Study on thermal analysis of rectangular plate perforated pin*, 6th National Conference on Advances in Mechanical Engineering (AIM 2016), pp.54-59, Vasavi College of Engineering ,Hyderabad, 6-7 October, 2016
- Dr.B.Balu Naik, *Alcohols as alternative fuels to internal combustion diesel engine*, All India Conference on Sustainable Product Development in Mechanical & Mechatronics Engineering, ISBN No.978-81-923288-3-6, Chhatrapati Shivaji Institute of Technology Shivaji Nagar, Durg,India, 24-25 August , 2015
- Dr.B.Balu Naik, *Biodiesel:Production,Properties,Applications and its Implementation in India*, National Conference on Recent Trends in Science & Technology (NCRTST 2015), ISBN No.978-93-82570-52-3, pp.78-83, JNTUH College of Engineering Nachapally(Kondagattu),Karimnagar,T.S.S, 25-26 February, 2015
- Dr.B.Balu Naik, *Analysis of Performance and Emission Characteristics of Diesel Engine Equipped with EGR, Fueled with Chicken Waste Based Biodiesel Blended with Diesel*, National Conference on Trends in Mechanical Engineering(TIME-15), JNTUACE, Ananthapuramu, 23 September, 2015
- Dr.B.Balu Naik, *Characterization of Friction Stir Welded Joint (AZ31) by TAGUCHI*, National Conference on Innovation in Mechanical Engineering , 21 March, 2014
- Balu Naik Banoth, *Characterization of Friction Stir Welded Joint (AZ31) by TAGUCHI*, National Conference on Innovation in Mechanical Engineering, 3, 2014
- Dr.B.Balu Naik, *Effect of Electrode Force on Spot Weld Quality*, National Conference on Emerging Trends in Science, Technology and Management (NCETSTM 2K14), ISBN No.978-93-8303820-6, 2014
- Dr.B.Balu Naik, *Formability analysis of austenitic Stainless steel - 304 under warm conditions*, AIP Conference Proceedings, ISBN No.1567, pp.378-381, 2013
- Dr.B.Balu Naik, *Experimental Study on Friction stir welding of Aluminum to copper dissimilar metals lap joint*, 4th National Conference on " Advances in Mechanical Engineering (AIM 2013)", ISBN No.Vasavi College of Engineering A.P., pp.297-300, 7-8 November, 2013
- Dr.B.Balu Naik, *Optimization of process parameters for machining of AL-SiC MMC using Taguchi design*, National Conference on Advance in Mechanical Engineering (AMIM 2012), pp.228-233, VCE,Hyderabad,India, 11-12 October, 2012
- Balu Naik Banoth, *Optimization of process parameters for machining of AL-SiC MMC using Taguchi design*, National Conference on Advance in Mechanical Engineering (AMIM 2012), pp.228-233, October 11-12, 2012
- Dr.B.Balu Naik, *Evaluation of Electro discharge saving A modified EDM Process*, National Conference on trends and advances in Mechanical Engineering, October, 2012
- Dr.B.Balu Naik, *Finite Element Modeling and Analysis of Rotational Tool used for Friction stir welding of Al/ Cu Bimetallic Lap Joints*, National Conference Recent Advancements in Engineering and Management (NCRAEM'12), 10-13 April, 2012
- Dr.B.Balu Naik, *Effect of grit size and abrasive type on surface finish of machined AL-SiC MMC*, Second National Conference on Recent Advance in Manufacturing , pp.1-6, S.V.NIT,Surat,India, 15-17 September, 2011
- Balu Naik Banoth, *Effect of grit size and abrasive type on surface finish of machined AL-SiC MMC*, Second National Conference on Recent Advance In Manufacturing, pp.1-6, September 15-17, 2011
- Dr.B.Balu Naik, *Recent Advances in Micro- EDM*, National Conference on "Recent Advances in Manufacturing Engineering & Technology", 10-11 January, 2011
- Dr.B.Balu Naik, *P12 Study and analysis of process parameters in granite machining*, National Conference on ACME, 25th and 26th March, 2010
- Dr.B.Balu Naik, *P-27 An analysis of scheduling rules in Hypothetical job shop Production System*, National Conference on Advances and Challenges in Mechanical Engineering, ISBN No.ACME-2010, Thudpathi,Erode,Thami Nadu., 25-26th March, 2010
- Balu Naik Banoth, *P12-Study and analysis of process parameters in granite machining*, National Conference on ACME , pp.25-26, 3, 2010
- Balu Naik Banoth, *P-27 An analysis of scheduling rules in hypothetical job shop production system*, National conference on Advances and Challenges in Mechanical Engineering (ACME-2010), pp.25-26, 3, 2010
- Balu Naik Banoth, *D04-Finite element simulation studies on the effect of interface friction in drawing AISI304 stainless steel and AL1100 materials at Constant Blank Holding Force*, National Conference on ACME, 03, 2010
- Dr.B.Balu Naik, *D04-Finite Element Simulation Studies on the effect of interface friction in drawing AISI304 Stainless steel and AL1100 materials at Constant Blank Holding Force*, National Conference on ACME Erode Sengunthar Engineering College, Erode Tamilnadu, March 25-26, 2010
- Dr.B.Balu Naik, *R10ME045:Recent advancement in EDM Micro drilling process*, National Conference on Trends in Mechanical Engineering (TIME 2010), 25-26 February, 2010
- Dr.B.Balu Naik, *P12- Study and Analysis of Process Parameters in Granite Machining*, National Conference on ACME Erode Sengunthar Engineering College, Erode,Tamilnadu, 25-26 March, 2010
- Dr.B.Balu Naik, *P27- An Analysis of Scheduling Rules in a Hypothetically job shop production system*, National Conference on ACME Erode Senunthar Engineering College Erode Tamilnadu, 25-26 March , 2010
- Dr.B.Balu Naik, *D04-Finite Element Simulation studies on the Effect of interface friction in drawing AISI 304 stainless steel and Al 1100 Materials at constant holding Force*, National Conference on ACME Erode Sengunthar Engineering College Erode Tamilnadu, 25-26 March, 2010
- Dr.B.Balu Naik, *Development of indirect resistance spot welding for automotive applications*, National Conference held at Puducherry , Indian Institute of Welding theme National Weld MEET , 6-9th August, 2010
- Balu Naik Banoth, *Recent advancement in EDM Micro drilling process*, National Conference on Trends in Mechanical Engineering (TIME 2010), ISBN No.R10ME045, 25th and 26th February , 2010
- Balu Naik Banoth, *P12-Study and Analysis of Process Parameters in Granite Machining*, National Conference on ACME Erode Sengunthar Engineering College, Erode, Tamilnadu, 25th-26th March, 2010
- Balu Naik Banoth, *P27-An Analysis of Scheduling Rules in a Hypothetically job shop production system*, National Conference on ACME Erode Sengunthar Engineering College, Erode, Tamilnadu, 25th-26th March , 2010
- Balu Naik Banoth, *D04-Finite Element simulations studies on the Effect of interface friction in drawing AISI 304 stainless steel and Al 1100 Materials at constant holding Force*, National Conference on ACME Erode Sengunthar Engineering College, Erode, Tamilnadu, 25th -26th March, 2010
- Balu Naik Banoth, *Development of indirect resistance spot welding for automotive applications*, Puducherry organizes by Indian Institute of Welding theme National weld MEET 2010, August 6-9, 2010
- Balu Naik Banoth, *Development of Friction stir welding of Aluminum to Copper dissimilar materials for electrical industries experimental design result*, Puducherry organized by Indian Institute of welding theme National weld meet 2010 , August 6-9, 2010
- Dr.B.Balu Naik, *R10ME045: Review of EDM Micro Drilling Process*, National Conference on Trends in Mechanical Engineering(TIME - 2010), 25-26 February, 2010
- Dr.B.Balu Naik, *Mechanical Behavior of Friction Stir Welding of Aluminum to Copper Dissimilar Metals Lap Joint*, National Conference on Advances in Mechanical Engineering (AIM-2010), Vasavi College of Engineering, Ibrahimibagh,Hyderabad, 18-19 November, 2010
- Dr.B.Balu Naik, *Optimization of cutting parameters to surface roughness of mild steel an Experimental Study*, National Conference, August , 2009
- Dr.B.Balu Naik, *Development design consideration of warm forming of Aluminium alloy*, National Mechanical Conference, JNTUCE Hyderabad, August, 2009
- Balu Naik Banoth, *Optimization of cutting parameters to surface roughness of mild steel an experimental study*, National Conference in August 2009, 8, 2009
- Balu Naik Banoth, *Development design consideration of warm forming of Aluminum alloy*, National Mechanical Conference, 8, 2009
- Dr.B.Balu Naik, *Development and Design Considerations of Warm forming of Aluminium-alloy*, National Conference on State of the Art of Technologies in Mechanical Engineering (NCSAME-2009), JNTUHCEH, Hyderabad, 20-21 August, 2009
- Balu Naik Banoth, *Development and Design Considerations of Warm forming of Aluminum-alloy*, National Conference on State of the Art of Technologies in Mechanical Engineering (NCSAME-2009) , JNTUHCEH, Hyderabad., Aug. 20-21, 2009
- Dr.B.Balu Naik, *On the Commercialization Aspects of Solar Hot Water System in India*, National Conference on state of Art of Technologies in Mechanical Engineering, ISBN No.NCSANE-2006, J.N.T.University Hyderabad, 05th and 06th May, 2006
- Balu Naik Banoth, *On the Commercialization Aspects of Solar Hot Water Systems in India*, National Conference on State of the Art of Technologies in Mechanical Engineering (NCSANE-2006) , 5, 2006
- Dr.B.Balu Naik, *Bio Gas Energy*, National Conference on Computer Applications in Mechanical Engineering , ISBN No.CAME-2005, pp.279-280, J.N.T.University Anantapur, 16th December , 2005
- Dr.B.Balu Naik, *The Prospects of Solar Energy in Rural Areas*, National Conference on Computer Applications in Mechanical Engineering , ISBN No.CAME-2005, pp.281-278, J.N.T.University Anantapur, 16th December , 2005
- Dr.B.Balu Naik, *Energy Audit Approach in Compressed Air-System*, National Conference on Computer Applications in Mechanical Engineering, ISBN No.CAME-2005, pp.281-284, J.N.T.University Anantapur, 16th December, 2005
- Balu Naik Banoth, *Bio Gas Energy*, National Conference on Computer Applications in Mechanical Engineering (CAME-2005, pp.279-280, 12, 2005
- Balu Naik Banoth, *The Prospects of Solar Energy in Rural Areas*, National Conference on Computer Applications in Mechanical Engineering (CAME-2005, pp.277-280, 12, 2005
- Balu Naik Banoth, *Energy Audit Approach in Compressed Air-System*, National Conference on Computer Applications in Mechanical Engineering (CAME-2005), pp.281-284, 12, 2005
- Dr.B.Balu Naik, *A Solution for Efficient Energy Conservation and Pollution Reduction: Fuel Cell Technology*, National Conference on State of the Art of Technologies in Mechanical Engineering, ISBN No.NCSAME 2004, pp.469-476, National Conference on State of the Art of Technologies in Mechanical Engineering, 30th June, 2004
- Dr.B.Balu Naik, *Performance Analysis of Two-Stage CONWIP Serial Productions System Under Saturated Condition*, National Conference on State of Art of Technologies in Mechanical Engineering, ISBN No.NCSAME - 2004, pp.117-122, National Conference on State of Art of Technologies in Mechanical Engineering JNT University Hyderabad, 29th and 30th June, 2004
- Balu Naik Banoth, *A Solution for Efficient Energy Conservation and Pollution Reduction: Fuel Cell Technology*, National Conference on State of the Art of Technologies in Mechanical Engineering (NCSAME-2004), pp.469-476, 6, 2004
- Balu Naik Banoth, *Performance Analysis of Two â€œStage CONWIP Serial Productions System Under Saturated Condition*, National Conference on State of the Art of Technologies in Mechanical Engineering (NCSAME-2004), pp.117-122, 6, 2004

#### → Events Participated/Organized

##### - Co-ordinated

- Coordinated for an Orientation Course on *UGC sponsored four week â€œ46th Orientation Courseâ€*, J.N.T.U HYDERABAD, 06-02-2017 to 04-03-2017
- Coordinated for a Refresher Course on *UGC sponsored one week Short Term Corse on â€œICT in Teaching & Researchâ€*, J.N.T.U HYDERABAD, 03-10-2016 to 08-10-2016
- Coordinated for an Orientation Course on *UGC sponsored four week â€œ45th Orientation Courseâ€*, J.N.T.U HYDERABAD, 11-07-2016 to 08-08-2016
- Coordinated for a Refresher Course on *UGC sponsored three week Summer School on â€œStrategies for Research Oriented Teachingâ€*, J.N.T.U HYDERABAD, 06-06-2016 to 25-06-2016
- Coordinated for an Orientation Course on *UGC sponsored four week â€œ44th Orientation Courseâ€*, J.N.T.U HYDERABAD, 08-02-2016 to 05-03-2016
- Coordinated for a Refresher Course on *UGC sponsored One Week Short Term Course on â€œe-Learning and ICT for Teaching Learningâ€*, J.N.T.U HYDERABAD, 02-11-2015 to 07-11-2015
- Coordinated for an Orientation Course on *UGC sponsored four week â€œ43rd Orientation Courseâ€*, J.N.T.U HYDERABAD, 31-08-2015 to 29-09-2015
- Coordinated for a Refresher Course on *UGC sponsored three week Summer School on â€œRole of Communication Skills in Effective Teachingâ€*, J.N.T.U.HYDERABAD, 08-06-2015 to 27-06-2015

#### → Honors & Professional Activities

##### → Professional Activities

- **Nominations to Governing Bodies:**As Governing Body Member of Self Financed Engineering Colleges, such as
  - Indur Institute of Engineering & Technology, Siddipet, Medak Dist.,
  - Vaagdevi College of Engineering , Bollikunt (P), Warngal Dist.,
  - Viswa Bharati College of Engineering & Technology, Nizampet, Hyderabad
  - Narasimha Reddy Engineering College, Dundigal, R.R. Dist.,
  - Vidhya Jyothi College of Engineering, Aziznagar, Ranga Reddy Dist.,
  - Anurag College of Engineering, Kodad (M), Nalgonda Dist. **Invited Lectures:**
  - Ramappa Engineering College, Warangal Dist.
  - Institute of Aeronautical Engineering, R.R. Dist.
  - Vaagdevi College of Engineering, Warangal Dist
  - Vivekananda Institution of Technology, Karimnagar Dist.
  - CMR College of Engineering & Technology, Kandlakoya
  - Ellenki College of Engineering & Technology, Patancheru
  - G. Narayanamma Institute of Technology & Science, Shaikpet, Hyderabad. **Personal Distinctions:**
  - 2001 to 2003 : General Secretary of J.N.T.U. College of Engineering,Teachers Association, Hyderabad
  - 2003 to 2005 : Vice-President of J.N.T.U. College of Engineering Teachers Association, Hyderabad
  - 2011 to 2014 : Vice-President of Telangana Universities Tribal Teachers Association (TUTTA), Hyderabad
  - 2014 to date : President of Telangana Universities Tribal Teachers Association (TUTTA), Hyderabad

##### → Administrative Positions Held

- Director of Admission, JNTUH, 03 Mar 2025 - Present
- Director, UGC-Human Resource Development Centre, J.N.T.U.H, 09 Feb 2015 - 29 Jan 2024
- Deputy Warden, Boys Hostel, J.N.T.U.H
- Hostel Manger, Boys & Girls Hostel, J.N.T.U.H
- Co-ordinator, NSS, J.N.T.U.H
- Deputy Director, UGC- Academic Staff College, J.N.T.U.H, Hyderabad
- Officer-in-charge for University Examinations (UGC- Academic Staff College, Nodal Center-2), J.N.T.U.H
- Project Officer(I/c) for National technical Manpower Information System (NTMIS), J.N.T.U.H
- Head Center for Nano - Science & Technology, J.N.T.U.H
- Officer â€œin-charge for University Examination (Nodal Centre â€œ 3), J.N.T.U.H
- Coordinator â€œEAMCET., J.N.T.U.H
- Deputy Director, UGC-ASC, J.N.T.U.H
- Principal, JNTUH College of Engineering Manthani

→ Students

Student Name	Title	Year	Download
Dhanraj Pamar Jarapla	Characterization of Z-Pinned Unidirectional Carbon Composites: An Experimental Approach	2017	
G. Surya Prakash Rao	Study of Microstructures and Mechanical behavior of Friction Stir Welded A231 Magnesium alloy under Cryogenic conditions	2017	
Yeole Shivraj Narayan	Surface Analysis of Ferrous and Non-Ferrous Materials using Electro Discharge Micro Drilling and Conventional EDM Drilling	2016	
K. Harinarayana	Experimental Investigations of H.S.S. & Titanium alloy using Electrodischarge sawing & Wire Cut EDM	2015	
L. Jayahari	Simulation & experimentation on forming process of high strength sheet metal alloy at various temperatures under warm conditions	2015	
Dareddy Ramana Reddy	Influence of Machining Parameters in Grinding, Fabrication and Testing of Composite material	2015	
M. Satyanarayana Gupta	Finite element Thermo-Mechanical analysis & evaluation of joint properties of friction stir welded Al/Cu Bimetallic Lap Joints	2014	
K. Naveen	Development of Optimal Replacement Model for Block of items â€” Discrete Markov Chains Approach	2012	
Kancha Sammaiah	Characterization of Direct and Indirect Resistance Spot Welds for Sheet Metal Fabrication Industries	2010	
Student Name	Title	Year	Download
Ambira Vijender	Compensation of utility current using PV-Active Power Filter while supplying the nonlinear load	2016	
K. Siva Karthik	Investigation into enhancement of heat transfer using assorted inserts in a circular tube using CFD analysis	2016	
V. Gopi	Modeling & Static analysis of Relay Bar Assembly used in long wall miningâ€•	2012	
M. Anil Kumar Reddy	Thermal Analysis and Simulational casting of Aluminum Alloy â€” 4405-Wp. Inertial Navigation System chassis of Avionic Application	2012	
N. Alekhya	Performance Analysis of Diesel Engine using Biodiesel with exhaust Gas Recirculation	2012	
K. Bharadwaja	Performance Evaluation of 5 KW Gasfier Engine System	2012	
K. Ramadheer Raju	CFD Analysis on Heat transfer Enhancement in ARIB Grid Roughened Surface Solar Air Heater	2012	
Gopi Vuyyuru	Modeling and Static Analysis of Relay Bar Assembly used in Long Wall Mining	2012	
Ch. Shilpa Chakra	Synthesis & Characterization of magnetic Nanoparticles for biomedical applications	2009	
Nerella Kameswari	Synthesis of silver nanoparticles, Montecarlo Simulation & Antibacterial studies	2009	
N. Mayur	Synthesis of Tungsten Silver nano composites by solvothermal Decomposition methods	2009	
V. Subhashini	Characterization of single & multi wall carbon nano tubes for sensor applications	2009	
S. Vara Prasad	Analysis of Jathropha oil & its blend with dieses as an alternative fuel to diesel in C.I. engines	2009	
K. Manikyal Rao	Performance evaluation of 5 KW Gasifier engine system	2008	
M. Arun Kumar	Gasification based bio-mass power generation including dual fuel firing	2008	
K.V. Ramana Murthy	Experimental analysis of vapour compression refrigeration system with variable condenser length	2008	
B. Venkata Krishnaiah	Performance of emission characteristics of a S.I. Engine using isobutanol gasoline blends	2008	
M. Penchala Reddy	Performance evaluation of the components of thermal power Plant (RTPP)	2008	
G. Rajendra Prasad	Performance evaluation of 5 KW Gasifier engine system	2008	
K. Srinivas	Performance evaluation of Disel engine using jathrophs oil & its blends	2008	
Rahmatullah	Study, Analysis & Improvement of Performance of Boiler in Bio-mass thermal power plant	2007	
D. Raghu Rami Reddy	Numerical Analysis of thermal sizing of multi tube pass shell & tube heat exchanger	2007	
V.P. Raju	Modification of a variable compression ration C.I. Engine & its performance with diesel and sun flower oil blends	2007	
G. Prasada Rao	Energy Conservation Potential in Boiler using Bio-mass feed	2006	
D. Srinivasulu	Thermal Performance Analysis on solar flat plate collector as per IS-12933	2006	
K. Naveen	Analysis of Energy Conservation possibilities in compressed air system in ceramic tiles industry	2006	
N. Rajitha Rami	Testing of alternative fuels for S.I. Engine	2006	
M. Ramesh	Experimental Study on Bio-mass gas fired I.C. Engine	2004	
M. Rama Devi	Method for Residual life assessment of major power plant components	2004	
S.S.R. Prasad	Design an evaporatively cooled heat exchanger	2004	
N.V. Krishna Reddy	Effective utilization of maintenance equipments	2004	
Y.R. Venkateswar Reddy	Design & Analysis of Solar Photo voltaic surface mounted centrifugal pumping system for agricultural purpose	2003	
Y. Dilip Kumar	Experimental Investigation of heat Recovery from Bio-mass energy	2003	
K. Sammaiah	Process improvement cabinet linear for visible cooler liner component for voltas product	2003	

→ Countries/Foreign Universities

- Massachusetts Institute of Tech.(M.I.T), Harvard University, Boston University, U.S.A
- U.A.E University, U.A.E
- Brazil University, Brazil

Contact :

**Dr. B Balu Naik**  
Mechanical Engineering

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Alternate Email: [banothbn@rediff.com](mailto:banothbn@rediff.com)